Index

A	ADT Automotive Used Car Market Report, 414
Accidents	Aerospace Facts and Figures, 412
airport, 121	Aerospace Industries Association, 412
air transportation, 105, 111, 117, 326–327	Age of vehicles/vessels
commuter carrier, 105, 119, 121	Amtrak fleet, 39
general aviation, 105, 123, 330	marine vessels, 40–41
hazardous material-related, 111, 112	motor vehicles, 33
near mid-air collisions, 124, 429	railroad locomotive fleet, 39
on-demand air taxi, 105, 122	transit vehicles, 38
by phase of operation, 121	Age patterns, population, xvii
buses, 105, 138	traveler characteristics, 52, 54
transit, 148–153	trends, xvii
data sources, 429–435	Agricultural sector
distribution by mode of transport, 105–106	economic indices, 189, 190, 191, 192, xviii
fatalities. See Fatalities	gasoline demand, 242, 383
grade crossing, 105, 110	Air bags, 144
hazardous materials-related, 111–112	Air Carrier Financial Statistics Quarterly, 407,
highway, 334	445
injuries. See Injuries	Air carriers
motorcycle, 105, 135, 338	accidents, 105, 117, 119, 326-327, 429
motor vehicle, 105, 111, 129, 135, 338	hazardous materials-related, 111, 112
alcohol involvement, 133, 139	by phase of operation, 121, 429
circumstances and conditions, 133, 141	See also Air carriers, fatalities; Air carriers,
effectiveness of restraint devices, 144, 431	injuries
hazardous material-related, 111, 112	aircraft miles traveled, 45, 322–323, 369
number of vehicles in, 133	arrivals/departures, 56, 419-420
by posted speed limit, 142	accident rate per, 117, 119
petroleum spills, 315	canceled flights, 85, 427
pipeline, 102, 105, 361, 363	data sources/analysis, 407, 409-410, 417,
property damage. See Property damage, accidents	419–420, 421, 422, 426, 429, 463–464
railroad, 105, 111–112, 148–153, 165,	delayed flights, 426, 427
433–434	causes, 85
distribution by type, 163	number of, 85
hazardous material-related, 111, 112	diverted flights, 85
railroad employees in, 166	energy consumption, 240, 381
by train-miles traveled, 165	fatalities, 99, 117, 119, 326, 327
recreational boating, 105, 172	hazardous materials-related, 111
personal watercraft, 172	by phase of operation, 121
transit systems, 105, 147–153, 352, 432–433	fleet characteristics, 17
truck, 105, 136, 342	freight transportation, 419–420
waterborne transportation, 105, 111, 112, 171,	length of haul, 65, 375
434	revenue per ton-mile, 210
Accommodations, travel, 53	revenue tons, 56
Administrator's Fact Book 406	ton-miles, 64, 325–326, 374

fuel consumption, 238, 243, 3/9, 384, 463–464	Airport Activity Statistics of Certificated Air Car-
efficiency/intensity, 257, 258, 393, 394, 465	riers, 419, 420
injuries, 102, 117, 119, 429	Airports
hazardous materials-related, 111	accidents, 121
See also Air carriers, fatalities	aircraft departures, number of, 56
mishandled baggage reports, 84, 426	causes of flight delays, 85
number of aircraft, 13, 322	data sources, 406, 415, 420
number of employees, 322	noise exposure, 317, 470–471
number of operators, 4, 321, 407	number of, 5, 406
number of revenue passengers, 56, 324, 325	number of passengers boarded, 58–59, 420
on-time flight operations, 84, 426, 427	passenger screening results, 125, 429
passenger fare trends, 205, 323, 445	private use, 5
passenger-miles traveled, 48, 372	public use, 5
average trip length, 65, 375, 422	runway conditions, 5, 33, 415
revenue per, 209	Air quality
passengers denied boarding by, 83, 426	areas not meeting federal standards, 306–310
revenue	urban trends, 302–305
freight, 210	See also Exhaust emissions; specific pollutant
operating, 211, 321	Air taxi, 99, 102, 105, 108, 122, 326, 327
passenger, 56, 209	data sources, 409, 429
vehicle-miles traveled, 417	Air traffic control, 215
See also Aircraft; Airports; Air transportation;	causes of flight delays, 85
Commuter air transportation; General aviation	Air Traffic Statistics, 422
Air Carrier Traffic Statistics, 420	Air transportation
Aircraft	accidents, 105, 111, 112
accident rate, 117	data sources, 429, 445, 452, 453–454
data sources, 409–410, 412	economic value, 181, 182
exhaust emissions	employees
carbon monoxide, 295	injuries and fatalities, 113
lead, 301	productivity, 219
nitrogen oxides, 296	trends, 212, 213, 215
particulate matter, 298, 299	wages and salaries, 216–218
standards, 286–287	fatalities, 99, 113
sulfur dioxide, 300	federal expenditures, 226, 453–454
volatile organic compounds, 297	federal revenues from, 224, 225, 452
fleet characteristics, 17–18	freight
flight hours, 117, 322–323	growth, 72
fuel consumption, 243, 384	hazardous materials, 77
fuel prices, 199	gasoline demand, 242, 383, 460
miles traveled, 45, 369	hazardous materials incidents, 111, 112
accident and injury rates, 117	injuries, 102, 111, 112
fuel consumption, 243, 384	long-distance travel characteristics, 51
passenger miles, 323	near mid-air collisions, 124, 429
per aircraft, 243, 384	passenger arrivals from foreign countries, 60
revenue miles, 322	passenger departures to foreign countries, 61
number of, 13, 409–410	passenger expenditures, 197
producer price indices, 201	passenger-miles traveled, 48, 372
sales/delivery of, 15, 412	passenger screening results, 125
See also Air carriers; Air transportation; Commuter air transportation; General aviation	personal consumption expenditures, 202, 203 producer price indices, 201
r	r

transportation-related demand, 183, 185	train-miles traveled, 45, 252, 354, 369
See also Air carriers; Aircraft; Airports; Com-	trip length, 65, 354, 375, 422
muter air transportation; General aviation	Annual Energy Review, 440, 457-458
Alabama	Annual Report of Consumer Expenditure Survey,
port tonnage, 70	444
urban air pollution, 302	Annual Retail Trade Survey, 437
Alaska	Argentina, motor vehicle production, 26–28
areas not meeting national air quality standards,	Arizona
306	airports, 58
Canadian border crossings, 62	areas not meeting national air quality standards,
international trade gateways, 66	306
port tonnage, 70	international trade gateways, 66, 68
Alcohol-related incidents	Mexican border crossings, 63
motor vehicle, 133	roadway congestion, 90, 91
blood alcohol concentration, 139	cost values, 93, 94
fatalities, 133, 139	fuel wasted due to, 265, 266, 268, 269
prevention, 144	urban air pollution, 303, 304, 305
in recreational boating, 172	urban traffic delays, 87, 88
state laws, 140	Arkansas
in transit systems, 156, 157	roadway congestion, 90
Alternative fuels, 245, 460–461	cost values, 93
American Automobile Association, 445	fuel wasted due to, 265, 268
American Gas Association, 406, 407, 446	urban air pollution, 303
American Petroleum Institute, 421, 425, 441	urban traffic delays, 87
American Public Transit Association, 411, 413,	Arson, 155
418–419, 422, 445, 446, 463, 464	Assault, 154, 156
American Travel Survey, 419	Association of American Railroads, 403, 407,
American Trucking Association, 420, 425	408, 411, 416, 419, 421, 425, 446, 464, 465
Amtrak	Association of Oil Pipe Lines, 405, 407, 421, 422,
age of vehicles, 39, 416	425
car-miles traveled, 45, 252, 354, 369	Australia
data sources/analysis, 403-405, 407, 411, 413,	air passenger arrivals from, 60
416, 422, 428, 446	air passenger departures to, 61
delays, 95	motor vehicle production, 26–28
employees, 353	Austria, motor vehicle production, 26–28
energy consumption, 238, 240, 252, 354, 379,	Automated Broker Interface System, 424
381	Automobiles. See Passenger cars; Personal use
efficiency/intensity, 257, 263, 393	vehicles
locomotive fleet characteristics, 39	Aviation Safety and Capacity Expansion Act, 452
miles of track operated, 3, 353, 367	
data sources, 403–405	В
new vehicles, sales/delivery of, 15	Bahama Islands
number of vehicles, 13, 353, 411	air passenger arrivals from, 60
on-time performance, 95, 428	air passenger departures to, 61
operating expenses, 353	Barbados
operating revenue, 211, 353, 446	air passenger arrivals from, 60
passenger fare trends, 205, 354, 446	air passenger departures to, 61
passenger-miles traveled, 48, 354, 372	Barges, 40, 41, 356, 358, 359
revenue per passenger-mile, 209, 354	revenue per ton-mile, 210
stations served, 8, 368, 407	Basic Petroleum Data Book, 421, 425, 441

Belgium	intercity, 197, 198, 203, 205, 209, 212, 344
air passenger arrivals from, 60	labor productivity, 219
air passenger departures to, 61	long-distance travel characteristics, 51
motor vehicle production, 26–28	Mexican border crossings, 63
Bermuda	number of, 13, 344
air passenger arrivals from, 60	number of operators, 344
air passenger departures to, 61	number of passengers, 345
Bicycle Council, 413	passenger expenditures, 197
Bicycle Manufacturers Association, 413	passenger fare trends, 205
Bicycles	passenger-miles traveled, 48, 345, 372
data sources, 413	personal consumption expenditures, 203
fatalities, 99, 108, 132, 133	professional operators, 215, 217
injuries, 102	revenue per passenger-mile, 209
as means of transport to work, 50	sales/delivery of, 15
producer price indices, 201	school, 197, 212, 344
sales/delivery of, 15	transit, 212
Boating Statistics, 412	accidents and injuries, 148–153
Boats. See Marine vessels; Recreational boating	age of vehicles, 38
Bobit Publishing Co., 414	average trip length, 351
Bomb threats, 125, 429	criminal behavior in, 154–158, 433
Brazil	economic indices, 347, 348
air passenger arrivals from, 60	fuel economies, 257, 262, 351–352, 393, 399
air passenger departures to, 61	inventory, 349
motor vehicle production, 26–28	number of, 13
Bridges, condition of, 37, 416	passenger expenditures, 197
Budget of the United States, 450, 453	passenger-miles traveled, 48, 350, 372
Bureau of Census, 410, 423, 437, 438, 439–440,	speed, 351
441–442, 446, 448, 450, 451, 455, 462	vehicle miles-traveled, 45, 350, 369
Bureau of Economic Analysis, 436–437, 449	vehicle-miles traveled, 45, 249, 344, 345, 369,
Bureau of Labor Statistics, 403, 408, 416, 419,	389
421, 436, 440, 441, 442, 443–444, 447, 448,	accident and injury rate, 138
449–450	Business travel
Bureau of Transportation Statistics, 407, 417,	fleet characteristics, 20
419, 420, 422, 423, 427, 429, 445, 450, 463	general aviation fleet, 328, 329, 330
Internet site, 425	trip characteristics, 52
Burglary, 155	vehicle sales, 23
Buses	venicle sales, 25
accidents, 105, 138, 148–153	С
average trip length, 65, 375, 422	CAFE standards, 261, 398
Canadian border crossings, 62	California
data sources, 422, 445	airports/water ports, 58, 59, 70
economic indices, 344	areas not meeting national air quality standards
employees, 344, 450	306
energy consumption, 240, 381	international trade gateways, 66, 67, 68
fatalities, 99, 108, 132, 138, 148–153, 345–346	Mexican border crossings, 63
freight transportation expenditures, 198	roadway congestion, 89, 90
fuel consumption, 238, 249, 345, 379, 389	cost values, 92, 93, 94
fuel economies, 249, 257, 262, 345, 389, 393,	fuel wasted due to, 267, 268, 269
399	urban air pollution, 302, 303, 304, 305
injuries, 102, 138, 148–153	urban traffic delays, 86, 87
111 U 1 1 C 2	uivaii tiaiiie uciays, 00, 0/

Canada	aircraft-miles traveled, 119
air passenger arrivals from, 60	arrivals/departures, 119
air passenger departures to, 61	data sources, 429
data sources, 422, 423, 424–425	fatalities, 99, 108, 119, 429
land freight shipments	by phase of operation, 121
border crossings, 68	flight hours, 119
value, 75	injuries, 102, 119, 429
land-passenger border crossings, 62	Commuter rail transportation
motor vehicle production, 26–28	accidents, 148–153
Carbon dioxide emissions, 311, 468–469	age of vehicles, 38
Carbon monoxide emissions, 295	average trip length, 65, 351, 375, 422
federal standards, 273–291	criminal behavior in, 154–158, 433
in reformulated gasoline engines, 294	data sources, 422
by vehicle type, 292–293, 467	economic indices, 347, 348
Carload Way Bill Statistics, 425	energy consumption, 351, 352
Carpools, 50	fatalities, 108, 148–153
Cars. See Passenger cars; Personal-use vehicles China	injuries, 148–153
	new vehicles, sales/delivery of, 15
air passenger arrivals from, 60	number of transit operators, 349
air passenger departures to, 61	number of vehicles, 13, 349
motor vehicle production, 26–28	passenger fare trends, 205
space launches, 79	passenger-miles traveled, 48, 350, 372
Cities. See Urban areas; specific state	revenue per passenger-mile, 209
Clean Air Act, 468	speed, 351
Amendments of 1990, 441	system mileage, 3, 367
Coal	vehicle-miles traveled, 45, 350, 369
consumption by transportation sector, 237	Commuter travel, 50
federal government consumption, 253, 391	See also Business travel; Commuter air trans-
Coastwise transportation, 64, 65, 69, 356, 357,	portation; Commuter rail transportation;
358, 374, 375, 376	Transit vehicles/systems
Colombia	Connecticut
air passenger arrivals from, 60	areas not meeting national air quality standards,
air passenger departures to, 61	307
Colorado	roadway congestion, 89
airports/water ports, 58	cost values, 92
areas not meeting national air quality standards,	fuel wasted due to, 265, 268
306–307	urban air pollution, 303, 304
roadway congestion, 89	urban traffic delays, 86
cost values, 92	Construction industries, 189, 190, 191, 192, xviii
fuel wasted due to, 264, 267	Consumer Expenditure Survey, 444–445
urban air pollution, 302	Consumer price indices, 200, 210, 441–443
urban traffic delays, 86	Consumer spending, 202
Commercial Space Launch Act, 426	cost of automobile ownership, 204, 445
Commercial vehicle production, 21, 27	data sources, 438, 440, 444-446
Commodity Flow Surveys, 72, 73–74, 423–424	fares, 197, 203, 205, 347, 348, 354, 440, 445–446
Communications industries/services, 189, 190,	freight, 198
191, 192	fuel, 199, 200, 440–443
Commuter air transportation	household, xviii
accidents, 105, 119, 429	taxis, 336
by phase of operation, 121	user-operated transportation, 203, 204, 336

Containerships, 29	producer price indices, 443–444
Corrosive materials, 78	property damage reporting thresholds, 114
Courier services, 72, 77, 340, 446	railroads, 403, 407–408, 411, 413, 416, 419,
Crashes. See Accidents; Fatalities; Injuries	421, 425, 433–434, 446, 464
Criminal acts	recreational boating, 412, 434
air passenger screening results, 125, 429	roadway congestion, 427-428
state DUI/DWI regulations, 140	roadways, 403, 404–405, 406, 415–416
in transit systems, 154, 433	safety performance, 429–435
Crude oil, 9, 65, 76, 361, 375, 377	sales of vehicles/vessels, 412–413, 414
Current Population Survey, 439	system mileage, 403–406
Czech Republic, motor vehicle production, 26–28	transit systems, 405, 411, 413, 416, 418–419, 432–433, 445–446, 454, 464
D	transportation employment, 429, 447–450
Data sources/analysis, v	trucks/trucking, 408, 410–411, 414, 420, 425,
age of vehicles/vessels, 415, 416–417	446
airports, 406, 415, 420	vehicle-miles traveled, 417–419
air transportation, 407, 409–410, 412, 417,	waterborne transportation, 405, 408, 411–412
419–420, 422, 426, 429, 445, 453–454,	413, 415, 417, 421–422, 423, 425, 434, 446
463–464	464
passenger screening, 429	Delaware, urban air pollution, 305
safety, 429	Demand responsive transit
Amtrak, 403–405, 407, 411, 413, 416, 422,	accidents and injuries, 108, 148–153
428, 446	average trip length, 351
bicycles, 413	criminal behavior in, 154-158
buses, 422, 445	economic indices, 347, 348
commuter rail transportation, 422	energy consumption, 351–352
consumer price indices, 441–443	fleet characteristics, 20
economic indices, 436–455	number of employees, 349
exhaust emissions, 466–469	number of operators, 349
freight tonnage/ton-miles, 420-426	number of vehicles, 13, 349
fuel consumption/efficiency, 414, 458–466	passenger expenditures, 197
fuel prices, 440–441	passenger-miles traveled, 48, 350, 372
gas pipeline, 405–406, 407, 435, 446	professional operators, 215, 217
General Estimates System, 134, 135, 137, 138	vehicle-miles traveled, 45, 350, 369
government revenues/expenditures, transporta-	See also Taxis
tion-related, 450–455	Demographics
Gross Domestic Product, 436–439	educational attainments, 55
hazardous materials, 423–424, 435	gender, 54, xvii, xviii
international travel, 420	race/ethnicity, 54
long-distance traveler/trip characteristics, 419	traveler/trip characteristics, 54–55, 419
motorcycles, 413, 431	See also Age patterns, population; Population,
motor vehicles, 410, 412, 414, 415, 417–418,	U.S.
427–428, 430–432, 462–463	Denmark
use/effectiveness of restraints, 431, 432	air passenger arrivals from, 60
noise exposure, 470–471	air passenger departures to, 61
number of vehicles/carriers, 407–412	Diesel engine emissions
oil pipeline, 405–406, 407, 421, 422, 425, 446	federal standards, 273–284, 288
oil spills/leaks, 469–470	rates, 293
petroleum supply, 457–458	Diesel fuel, 199, 245, 250, 252, 389, 460
port traffic, 422–423	Amtrak consumption, 354

consumption by transportation sector, 238, 239,	passenger car sales, 21–24
240, 241, 379, 381	passenger fare trends, 205, 323
marine vessel consumption, 358	passenger-mile trends, 194
District of Columbia, 58	personal expenditures
air quality, 307	by economic category, 202
roadway congestion, 91	passenger expenditures, 197
cost values, 94	transportation services, 202, 203
fuel wasted due to, 266, 269	personal watercraft sales, 172
traffic delays, 87	producer price indices, 201, 443–444
urban air pollution, 305	rail transport, 181, 182, 198, 203, 210, 211,
Dominican Republic	353, 446
air passenger arrivals from, 60	revenue per passenger-mile, by mode, 209
air passenger departures to, 61	traffic congestion costs, 92–94, 427–428
Drug abuse, 156	transit operations, 347–348
See also Alcohol-related incidents	transportation equipment, 201
	transportation-related final demand, 183-188
E	transportation services, 201
Economic indices	trucking, 181, 182, 201, 203, 211, 219, 340
air carrier performance, 56, 209, 210, 211, 321,	See also Employment; Fuel economies; Gross
322–326	Domestic Product; International trade
aircraft sales, 15	Economic Report of the President, 439
Amtrak, 353	Educational attainment, traveler characteristics,
bus operations, 344	55
commodity shipments, value of, 73–74	Educational services, 189, 190, 191, 192, 193
compensation in transportation industries,	personal expenditures, 202
216–218	Electric power, 245
consumer price indices, 200, 441–443	Amtrak consumption, 252, 263, 354
data sources/analysis, 436-455	consumption by transportation sector, 237, 238,
disposable personal income, 202	239, 240, 241, 379, 381, 461
freight transportation	data sources, 440
expenditures, 198	federal government consumption, 253, 391
growth, 72	transit vehicle consumption, 250, 389
revenue per ton-mile, 210	Emergency preparedness, 224, 225, 453
fuel prices, 199, 200	Employment
gas pipeline operations, 362	gender distribution, xviii
government expenditures, transportation-relat-	means of transport to work, 50
ed, 184, 186, 187, 188, 223, 226	pipeline, 361
government revenues, transportation-related,	transportation occupations, 353, 356
223–225	air carrier, 322
gross domestic product, 181–186, 189–192,	bus transportation, 344
xviii	data sources, 429, 447–450
by social function, 193	distribution by mode, 212–214, 215
household expenditures, xviii	fatalities, 113, 355, 429
household income, xviii	motor vehicle-related, 336
long-distance travel and, 55	productivity, 219, 449–450
international trade	professional operators, 215, 217
freight shipments, 66–67, 75	railroad injuries, 162, 166
transportation-related exports, 183, 185	roadway operations/construction, 213, 333
oil pipeline revenues, 361	transit, 349
operating revenues by mode 211	trends 212-214 215

trucking, 340	F
wage and salary trends, 216-218, 448-450	FAA Statistical Handbook of Aviation, 409, 417
traveler status, 55	Fatalities
Energy consumption	air transportation, 99, 117, 326, 327, 429
carbon dioxide emissions, 311	commuter carrier, 119, 121
by economic sector, 232	general aviation, 123, 330
federal government, 253, 391	on-demand air taxi, 122, 326, 327
transit vehicles/systems, 351-352	by phase of operation, 121
for transportation, 231, 232, 237	bicyclist, 99, 108, 132, 133
by mode, 240–241, <i>381</i>	buses, 99, 108, 132, 138, 148–153, 345–346
See also Fuel consumption; Fuel efficiency/inten-	comparison across modes, 433
sity; Gasoline; Natural gas; Petroleum	data sources, 429–435
Energy Data Report, 405, 407	distribution by mode, 99–100, 108–109
Energy efficiency/intensity. See Fuel	grade crossing, 99, 108, 110, 355
efficiency/intensity	hazardous materials-related, 111
Energy Information Administration, 425, 440,	highway, 334
441, 457–458, 459, 460, 462, 464, 468, 469	motorcycle, 99, 108, 132, 135, 338
Eno Transportation Foundation, Inc., 405, 407,	motor vehicle, 99, 108, 129
420, 421, 422, 446	alcohol involvement, 133, 139
Environmental protection. See Exhaust emissions,	circumstances and conditions, 141
federal standards; Recycling	by highway type, 130–131
Ethanol fuel, 245, 461	nonoccupant, 132, 133
Europe	number of vehicles in accident, 133
space launches, 79	by posted speed limit, 142
See also specific country	prevention, 144, 432
Exhaust emissions, 292–293, 294	by vehicle type, 132
carbon dioxide, 311, 468–469	occupational, 113, 166, 429
carbon monoxide, 273–295	pedestrian, 99
data sources, 466–469	pipeline-related, 99, 108, 361, 363
federal standards	railroad, 99, 108, 111, 113, 148-153, 165, 355
aircraft engines, 286–287	433–434
heavy heavy-duty trucks, 284	among railroad employees, 166
light-duty vehicles, 273	by train-miles traveled, 164, 165
light heavy-duty trucks, 283	by type of accident, 163
light trucks, 273, 274–281	recreational boating, 172
locomotives, 288–289	personal watercraft, 172
marine engines, 290–291	transit systems, 99, 108, 147–153, 352,
medium-duty passenger vehicles, 282	432–433
motorcycles, 285	truck, 99, 108, 132, 136, 342
lead, 301, 468	waterborne transportation, 99, 108, 113, 171,
nitrogen oxides, 273–294, 296	359, 360, 434
particulate emissions, 273–284, 288, 298, 299	Federal Aviation Act, 407
in reformulated gasoline engines, 294	Federal Aviation Administration, 114, 406,
sulfur dioxide, 300, 467, 468	409–410, 415, 417, 420, 425, 426, 429, 452,
Experimental aircraft, 18	463, 470–471
Explosives	Operations Network database, 426, 427
detected at airports, 125, 429	Federal Energy Regulatory Commission, 408,
shipments, 78	421, 425, 446
Exports. See International trade	Federal government
	contributions to GDP, 189–192

employment, transportation-related, 213,	Formaldehyde emissions, 273–282
447–448, 453–455	France
energy consumption, 253, 391, 464–465	air passenger arrivals from, 60
exhaust emission standards, 273–291	air passenger departures to, 61
revenues, transportation-related, 223–225,	motor vehicle production, 26–28
450–453	Freight Commodity Statistics, 425
road ownership, 332	Freight transportation
spending, transportation-related, 184, 186, 187,	air carrier, 419–420
188, 226	growth, 72
transit subsidies, 347	revenue tons, 56
trust funds, 224, 225, 227, 452, 453	ton-miles, 64, 325–326, 374
See also specific U.S. department or agency	by commodity, 73–74, 423–424
Federal Highway Administration, 114, 410,	data sources, 421–422, 423–424, 440
415–416, 422, 451, 454, 455, 459, 462, 463,	expenditures, 198, 440
468	growth, 72
Highway Performance Monitoring System, 403,	hazardous materials, 77, 78
404–405, 406, 410, 417–418, 427	length of haul, 65, 342, 375, 421–422
Federal Maritime Administration, 454	by commodity, 63–74
Federal Motor Carrier Safety Administration, 408	multiple mode, 72, 77
Federal Motor Carrier Safety Regulations, 408	petroleum products, 76
Federal Railroad Administration, 114	See also Oil pipelines
Federal Railroad Commission, 425	producer price indices, 201
Federal Reserve Board of Governors, 439, 440	rail
Federal Transit Act, 405, 445–446	growth, 72
Federal Transit Administration, 114, 405, 407,	international, 75
411, 413, 416, 418–419, 422, 432, 445, 463,	operating revenues, 353
464	ton-miles, 64, 374
Ferries, 347, 348, 349, 350, 351, 352, 357	vehicle-miles traveled, 45, 369
age of vessels, 38	truck, 340–342
passenger-miles traveled, 48, 372	growth, 72
vessel miles traveled, 45, 369	international, 75
Financial services, 189, 190, 191, 192, xviii	number of interstate carriers, 4
Fishing, commercial, 356, 359	ton-miles, 64, 341, 374
Flammable materials, 78	waterborne, 29, 40–41, 70–71
Florida	distribution by vessel type, 29
airports/water ports, 58, 70, 71	domestic, 64, 69, 374, 376
international trade gateways, 66, 67	fleet characteristics/performance, 29, 40–41,
roadway congestion, 89, 90, 91	356–359
cost values, 92, 93, 94	growth, 72
fuel wasted due to, 264, 265, 266, 267, 268,	international, 69, 376
269	top ports, 70–71
urban air pollution, 302, 303, 304, 305	See also International trade; Tonnage/ton-miles
urban traffic delays, 86, 87, 88	Fuel consumption
Food services, 193	alternative fuels, 245, 460–461
consumer price indices, 200	Amtrak, 239, 241, 379, 381
personal expenditures, 202	aviation, 199, 238, 240, 243, 329, 379, 381,
Foreign Trade Zones, 75	384, 460
For-hire transportation services, 72, 193, xviii	federal government, 253, 391
economic value, 181–182, 189, 190, 191, 192	buses, 249, 389
employment, 212–214	data sources, 414, 440–443, 458–465

efficiency. See Fuel efficiency/intensity	traveler characteristics, 54
federal government, 253, 391	General aviation
gas pipeline operations, 363	aircraft, 13
by mode, 238–241, 379–381, 462–464	data sources, 409, 412, 417, 429
motorcycles, 246, 337, 386	economic indices, 328
motor vehicle, 199, 238, 240, 244, 337, 345,	energy consumption, 240, 381
379, 381, 385, 462	fatalities, 99, 108, 429
highway demand, 334	fleet characteristics, 17–18, 328–329
passenger cars, 246, 337, 386	fuel consumption, 238, 329, 379
price trends, 199, 200, 440–443	new aircraft, sales/delivery of, 15
railroad, 238, 240, 251, 354, 379, 381, 390,	number of aircraft, 328
464	passenger-miles traveled, 48, 329, 372
taxes, 200, 224, 225, 331	safety performance, 99, 105, 108, 123, 330, 429
transit vehicles, 238, 240, 250, 379, 381, 389	vehicle-miles traveled, 45, 329, 369, 417
trucks, 248, 249, 341, 388	General Aviation and Air Taxi Activity and Avion-
wastage due to congestion, 264-269, 465-466	ics Survey, 429, 463
water transportation, 239, 241, 358, 379, 381	General Aviation and Air Taxi Activity Survey,
Fuel efficiency/intensity	417
aircraft, 243, 257, 258, 384, 393, 394	General Aviation and Air Taxi Activity Survey,
Amtrak, 257, 263, 393	409
buses, 249, 345, 389	General Aviation Manufacturers Association, 412
CAFE standards, 261, 398	General Aviation Statistical Databook, 412
data sources, 465–466	General Estimates System, 134, 135, 137, 138
highway vehicles, 257, 260, 338, 393, 396	Georgia
motorcycles, 246, 257, 260, 338, 386, 393, 396	airports/water ports, 58, 66, 71
new truck sales, 25	areas not meeting national air quality standards,
passenger cars, 24, 246, 257, 260, 261, 338,	307
386, 393, 396, 398	roadway congestion, 89
imported, 261, 398	cost values, 92
railroad, 251, 262, 354, 390, 399	fuel wasted due to, 264, 267
transit buses, 257, 262, 393, 399	urban air pollution, 302
trucks, 25, 248, 249, 261, 341, 388, 398	urban traffic delays, 86
	Germany
G	air passenger arrivals from, 60
Gas Facts, 406, 407, 446	air passenger departures to, 61
Gasohol, 245	motor vehicle production, 26–28
Gasoline, 441	new retail car sales to U.S., 22
consumer spending, 336	Glider aircraft, 18
cost of operating automobile, 204	Government
data sources, 459–460	expenditures, transportation-related, 23, 184,
marine vessel consumption, 358	186, 187, 188, 223, 225, 453–455
personal consumption expenditures, 203	highway, 331
price trends, 199, 200	transit systems, 347
transportation consumption, 238, 239, 240,	marine vessel ownership, 357
241, 250, 329, 379, 381, 389, 459–460	revenues, transportation-related, 223–225,
transportation-related demand, 183, 185, 187,	450–453
188, 242, 383	highway, 331
Gender	trust fund balances, 227
labor force participation rate, xviii	See also Taxes
population distribution, xvii	vehicle fleet, 20

See also Federal government; State and local	Health services, 189, 190, 191, 192, 193
government	consumer price indices, 200
Grade-crossing accidents and injuries, 99, 102,	personal expenditures, 202
105, 108, 110, 162, 166, 355	Helicopters, 17, 412
Grand Cayman	sales/delivery of, 15
air passenger arrivals from, 60	Highway Performance Monitoring System, 403,
air passenger departures to, 61	404–405, 406, 410, 417–418, 427
Great Lakes, 356, 358	Highways. See Roadways
freight transportation	Highway Statistics, 403, 406, 410, 416, 417, 422
	451
growth, 72	
short tons, 69, 376	Highway vehicles
Greece	accidents, 105, 430–431
air passenger arrivals from, 60	hazardous materials-related, 111, 112
air passenger departures to, 61	data sources, 430–432
Gross Domestic Demand, 187, 188, 436	energy consumption, 238, 239, 240–241, 379,
Gross Domestic Product, xviii	381, 460–461, 462
distribution by industry, 189–192	alternative fuels, 245
for-hire transportation services, 181–182	gasoline demand, 242, 383
methodology for analyzing, 436–439	exhaust emissions, 296–301, 466–468
by social function, 193	carbon monoxide, 295
transportation-related final demand, 183-186,	lead, 301
438–439	nitrogen oxides, 296
trends, 194	particulate matter, 298, 299
Guam, air quality, 307	sulfur dioxide, 300
Guided vehicles, 148–153	volatile organic compounds, 297
,	fatalities, 99, 430
H	alcohol-related, 139
Haiti	occupational, 113
air passenger arrivals from, 60	freight transportation expenditures, 198
air passenger departures to, 61	injuries, 102, 430–431
Hawaii	hazardous materials-related, 111
airports/water ports, 58, 71	miles traveled, 45, 47, 369, 371
roadway congestion, 89	new, sales/delivery of, 15
, ,	· · · · · · · · · · · · · · · · · · ·
cost values, 92	numbers of, 13
fuel wasted due to, 265, 268	passenger-miles traveled, 48, 372
urban air pollution, 303	See also Buses; Light Trucks; Motorcycles;
urban traffic delays, 86	Motor vehicles; Passenger cars; Personal-use
Hazardous Materials Regulations, 408	vehicles; Trucks and trucking
Hazardous materials shipments, 453	Homicide, 154
accidents, 105, 111–112, 435	Hong Kong
associated fatalities, 99, 108, 111, 435	air passenger arrivals from, 60
associated injuries, 102, 111, 435	air passenger departures to, 61
by class, 78	Household characteristics, xviii
data sources, 423–424, 435	expenditures on household operations, 202
modal distribution, 77	long-distance trips, 51–53, 55
by pipeline, 4, 435	Hydrocarbon emissions
accidents, 105	federal standards, 273–291
associated fatalities, 99, 108	in reformulated gasoline engines, 294
associated injuries, 102	by vehicle type, 292–293
Health Care Financing Administration, 436	

I	waterborne transportation, 102, 111, 112, 171,
Idaho, 307	359, 434
Illinois	See also Fatalities
airports/water ports, 58, 70	Inland Waterways Revenue Act, 453
areas not meeting national air quality standards,	Insurance, 203, 336
307	Internal Revenue Service, 436
international trade gateways, 66	International trade
roadway congestion, 90	aircraft sales, 183, 185
cost values, 92, 94	air freight, 325, 326
fuel wasted due to, 266, 269	automobile sales, 22, 183, 185
urban air pollution, 302, 304	data sources, 422, 423, 424–425
urban traffic delays, 87	gateway cities, 66-67, 68, 422
Immigrant population, xvii	land shipments, 68, 75, 424-425
Imports. See International trade	natural gas, 231
India, motor vehicle production, 26–28	petroleum, 231
Indiana	transportation-related demand, 183, 185,
airports/water ports, 59, 71	438–439
areas not meeting national air quality standards,	value of shipments, 66-67, 422
307	waterborne, 69, 358, 376, 422–423
roadway congestion, 89, 90	International Trade Administration, 412, 420
cost values, 92, 93	International travel
fuel wasted due to, 264, 265, 267, 268	air arrivals/departures, 60, 61, 324, 325
urban air pollution, 302, 303	air carrier revenue/expenses, 321, 322, 323
urban traffic delays, 86, 87	Canadian border traffic, 62
Industry Productivity Measures, 449	data sources, 420
Injuries	economic value, 183, 185
air transportation, 102, 111, 112, 117, 429	Mexican border traffic, 62
commuter carrier, 119	waterborne, 356
general aviation, 123	Interstate Commerce Commission, 417, 420, 421,
on-demand air taxi, 122	446
bicyclists, 102	Interstate highways, 334
buses, 102, 138, 148–153	condition, 34, 35
data sources, 429–435	fatalities, 130–131
distribution by mode of transport, 102–103	system mileage, 7, 8, 332, 333, 368
grade crossing, 102, 110, 162	vehicle-miles traveled, 47, 336, 337, 371
hazardous materials-related, 111	Interstate motor carriers, 4, 408
highway, 334	Iowa
motorcycle, 102, 135	roadway congestion, 90
motor vehicle, 102, 129, 135, 136, 138	cost values, 93
pedestrians, 102	fuel wasted due to, 265, 268
pipeline-related, 102, 361, 363	urban air pollution, 304
railroad, 102, 111-112, 148-153, 162, 165,	urban traffic delays, 87
433–434	Ireland
among railroad employees, 166	air passenger arrivals from, 60
by train-miles traveled, 164, 165	air passenger departures to, 61
by type of accident, 163	Israel
recreational boating, 172	air passenger arrivals from, 60
personal watercraft, 172	air passenger departures to, 61
transit systems, 102, 147–153, 352, 432–433	Italy
truck 102 136	air passenger arrivals from, 60

air passenger departures to, 61	federal standards, 273–281
motor vehicle production, 26–28	rates, 292, 293, 294
	fatalities, 108, 132, 136
Ĵ	fuel consumption, 248, 388
Jamaica	efficiency/intensity, 25, 257, 260, 261, 393,
air passenger arrivals from, 60	396, 398
air passenger departures to, 61	injuries, 136
Japan	safety belt use, 143
air passenger arrivals from, 60	sales, 25
air passenger departures to, 61	vehicle-miles traveled, 136
motor vehicle production, 26–28	See also Trucks and trucking
new retail car sales to U.S., 22	Liquefied petroleum gas, 29, 285
17	Liquid Pipeline Directory, 405, 407
K	Lloyd's Maritime Information Service, 411–412,
Kansas	413, 415
roadway congestion, 89	Lloyd's Register, 411–412, 413, 415
cost values, 93	Local government. See State and local government
fuel wasted due to, 265, 268	Local travel
urban air pollution, 303	employment, 212, 215, 216, 217, 218
urban traffic delays, 86	expenditures, 198
Kentucky	trucking operations, 340
areas not meeting national air quality standards,	See also Commuter travel; Transit vehicles/systems
307	Long-distance travel
roadway congestion, 89, 90	by calendar quarter, 51
cost values, 92, 93	data sources, 419
fuel wasted due to, 264, 267, 268	by distance traveled, 51
urban air pollution, 302, 303	household characteristics, 55
urban traffic delays, 86, 87	household trips, 51–53
Korea	person-miles, 51–55
air passenger arrivals from, 60	person trips, 51–55
air passenger departures to, 61	by purpose of trip, 52
	traveler characteristics, 54–55
L	travel party characteristics, 52
Labor. See Employment	trip duration, 53
Licensing and registration	types of lodging used, 53
aircraft, 409	vehicle miles, 51–55
motor vehicle registration, 244, 246, 248, 249,	vehicle trips, 51–55
336, 410	by vehicle type, 51
consumer spending, 336	See also International travel
state government revenues, 331	Louisiana
trucks, 340	airports/water ports, 58, 70
recreational boats, 412	international trade gateways, 66, 67
space launches, 425–426	roadway congestion, 90
transit vehicles, 249, 250	fuel wasted due to, 265, 268
Lighter-than-air aircraft, 18	urban air pollution, 302, 304
Light rail. See Railroads, light rail	urban traffic delays, 87
Light trucks, 25	••
accidents, 136	M
data sources, 414	Mail and parcel shipments
exhaust emissions	air carrier revenue tons, 56

growth, 72	manufacturing and repair, employment trends,
hazardous materials, 77	213, 356
international, 75	merchant fleet, 15, 29, 357, 415
Maine	new, sales/delivery of, 15
Canadian border crossings, 62	number of, 13, 40–41, 356–357, 411–412
port tonnage, 71	number of operators, 4, 356, 408
Maintenance and repair, including parts	passenger, 40, 41, 356, 357, 359
automobile costs, 204	petroleum spills, 315
automobile spending, 336	producer price indices, 201
employment trends in transportation industries,	roll-on/roll-off, 29
213	sail, 360
marine vessels, 356	tankers, 29, 40, 41, 315, 356, 357, 358, 359
motor vehicle-related employment, 336	towboats, 40, 41
natural gas pipeline, 362	See also Recreational boating; Waterborne
personal consumption expenditures, 203	transportation
Malaysia, motor vehicle production, 26–28	Maritime Administration, 411, 413, 415, 423,
Manufacturing sector	454
economic indices, 189, 190, 191, 192, xviii	Maryland
transportation equipment	airports/water ports, 58, 70
employment trends, 213	areas not meeting national air quality standards,
producer price index, 201	307
Marine Safety Information System, 434, 469	international trade gateways, 66
Marine vessels, 13, 29	roadway congestion, 89, 91
accidents, 105, 111, 112, 171, 434	cost values, 92, 94
See also Marine vessels, fatalities; Marine ves-	fuel wasted due to, 264, 266, 267, 269
sels, injuries	urban air pollution, 302, 305
barge, 40, 41, 356, 359	urban traffic delays, 86, 88
containerships, 29	Massachusetts
data sources, 408, 411–412, 413, 415, 417	airports/water ports, 58, 70
dry cargo, 40, 41	areas not meeting national air quality standards,
employees	307
injuries and fatalities, 113	international trade gateways, 67
in manufacturing and repair, 213, 356	roadway congestion, 89, 90
energy consumption, 238, 240, 358, 379, 381,	cost values, 92, 93
464	fuel wasted due to, 264, 266, 267, 269
exhaust emissions	urban air pollution, 302, 304, 305
carbon monoxide, 295	urban traffic delays, 86, 87
nitrogen oxides, 296	Medium-duty passenger vehicles, 282
particulate matter, 298, 299	Merchant fleet, U. S., 29, 357, 411–412, 413, 415
standards, 290–291	Merchant Fleets of the World, 411, 413
sulfur dioxide, 300	Methanol fuel, 245, 285, 461
volatile organic compounds, 297	Methyl-tertiary-butyl-ether, 245, 460–461
fatalities, 99, 108, 171, 359, 360, 434	Metric conversions, 367–399
among employees, 113	Metropolitan areas. See Urban areas
fleet characteristics, 29, 356–357, 413, 415, 417	Mexico
freighters, 29	air passenger arrivals from, 60
government owned, 357	air passenger departures to, 61
hazardous materials incidents, 111, 112	data sources, 424–425
injuries, 102, 111, 112, 171, 434	land freight shipments
long-distance travel characteristics, 51	border crossings, 68

value, 75	Motorcycle Industry Council, Inc., 413
land-passenger border crossings, 63	Motorcycles
motor vehicle production, 26–28	accidents, 105, 135, 338
Michigan	See also Motorcycles, fatalities; Motorcycles,
airports/water ports, 58, 71	injuries
Canadian border crossings, 62	data sources, 413
international trade gateways, 66, 68	exhaust emissions
roadway congestion, 89	federal standards, 285
cost values, 92	rates, 292, 294
fuel wasted due to, 264, 267	fatalities, 99, 108, 132, 135, 338
urban air pollution, 302, 303	fuel economies, 246, 257, 260, 337–338, 386,
urban traffic delays, 86	393, 396
Mileage. See Passengers-miles traveled; System	helmet use, 143, 144
mileage; Vehicle-miles traveled	injuries, 102, 135
Mining industries, 189, 190, 191, 192, xviii	See also Motorcycles, fatalities
Minnesota	licensing and registration, 336
airports/water ports, 58, 70, 71	as means of transport to work, 50
areas not meeting national air quality standards,	new, sales/delivery of, 15
307	number of, 13
Canadian border crossings, 62	passenger-miles traveled, 48, 337, 372
international trade gateways, 68	producer price indices, 201
roadway congestion, 90	vehicle-miles traveled, 45, 246, 336, 337, 369, 386
cost values, 93	accident and injury rate, 135
fuel wasted due to, 265, 268	Motor Vehicle Facts, 412
urban air pollution, 303	Motor vehicles
urban traffic delays, 87	accidents, 105, 129, 430–431
Mississippi	alcohol involvement, 133, 139
port tonnage, 70	circumstances and conditions, 141
roadway congestion	by posted speed limit, 142
cost values, 93	at railroad crossings, 99, 102, 105, 108, 110,
fuel wasted due to, 265	162
urban air pollution, 303	See also Motor vehicles, fatalities; Motor vehi-
urban traffic delays, 87	cles, injuries
Missouri, 58	age of vehicles, 33
areas not meeting national air quality standards,	data sources, 410–411, 430–432, 459–460
307	employment related to, 336
port tonnage, 70	energy consumption, 240, 381
roadway congestion, 89, 90	fatalities, 99, 108, 129, 430
cost values, 93, 94	alcohol involvement, 133
fuel wasted due to, 265, 266, 268, 269	circumstances and conditions, 141
urban air pollution, 303, 304	effectiveness of restraint devices, 144, 431
urban traffic delays, 86, 87	by highway type, 130–131
Montana	number of vehicles in accident, 133
areas not meeting national air quality standards,	occupant/nonoccupant, 132, 133
307–308	by posted speed limit, 142
international trade gateways, 67	by vehicle type, 132
Monthly Survey of Industrial Electricity Use, 440 Motor Carrier Management Information System	fleet characteristics, 20
Motor Carrier Management Information System, 408	fuel consumption, 238, 244, 334, 337–338, 379, 385, 414, 459–460
Motor Carrier Safety Improvement Act, 408	federal government, 253, 391

fuel prices, 199, 200	motor vehicle emissions standards, 285
grade-crossing accidents and injuries, 99, 102,	pipelines
105, 108, 110, 162	accidents, 102, 105, 363, 435
injuries, 102, 129, 135, 136, 138, 162, 430–431	associated fatalities, 99, 108, 363, 435
See also Motor vehicles, fatalities	associated injuries, 102, 363, 435
licensing and registration, 336	data sources, 406, 407, 408, 435, 446
long-distance travel characteristics, 51–55	economic indices, 362
as means of transport to work, 50	employment trends, 212, 362
number of, 410–411	fuel consumption, 363
passenger-miles traveled, 48, 337, 372	number of operators, 4, 362
passenger restraints, 143, 144, 431	operating revenue, 211
personal consumption, 183, 185, 187, 188	production, 363
expenditures, 203	system mileage, 3, 9, 362, 367, 406, 407
producer price indices, 201	production, 231
production, 21, 26–28, 414	Navigation Data Center, 408, 411, 417
employment trends, 213	Near Midair Collisions Systems database, 429
professional operators, 215, 217	Nebraska
repair expenditures, 203	areas not meeting national air quality standards
sales, 15, 21–25, 414	308
scrapped, 318, 471	roadway congestion, 90
vehicle-miles traveled, 45, 336–337, 369	cost values, 93
accident and injury rate, 129	fuel wasted due to, 265, 268
See also Buses; Highway vehicles; Motorcycles;	urban air pollution, 304
Passenger cars; Personal-use vehicles; Trucks	urban traffic delays, 87
and trucking	Netherland Antilles
	air passenger arrivals from, 60
N	air passenger departures to, 61
National Automotive Dealers Association, 414	Netherlands
National Bicycle Dealers Association, 413	air passenger arrivals from, 60
National Bridge Inventory Database, 416	air passenger departures to, 61
National Highway Traffic Safety Administration,	motor vehicle production, 26–28
114, 134, 137, 138, 430–431, 432, 454	Nevada, 58
National Income and Product Accounts, 436, 438, 449	areas not meeting national air quality standards, 308
National Occupant Protection Use Survey, 431	roadway congestion, 90
National Plan of Integrated Airport Systems, 415	cost values, 93
National Transit Database, 405, 407, 411, 413,	fuel wasted due to, 265, 268
416, 418–419, 422, 432–433, 445, 463, 464	urban air pollution, 303
National Transportation Safety Board, 429	urban traffic delays, 87
Nationwide Personal Transportation Survey,	New Hampshire, 302
418–419, 462	New Jersey
Natural gas	airports, 58
compressed, 238, 240, 245, 250, 379, 381, 389	areas not meeting national air quality standards
consumption, 231, 237, 238, 239, 240, 241,	308
379, 381, 461	international trade gateways, 66
federal government, 253, 391	port tonnage, 70
motor vehicle, 245, 250, 389	roadway congestion, 90
international trade, 231	cost values, 93
liquefied, 245	fuel wasted due to, 265, 268
merchant fleet 29	urban air pollution 302 303 304

urban traffic delays, 87	roadway congestion, 89
New Mexico	cost values, 92
areas not meeting national air quality standards,	fuel wasted due to, 264, 267
308	urban air pollution, 302, 305
roadway congestion, 89	urban traffic delays, 86
cost values, 92	Oil. See Oil pipelines; Petroleum
fuel wasted due to, 264, 267	Oil Pipeline Research Institute, 405, 407, 446
urban air pollution, 302	Oil pipelines
urban traffic delays, 86	crude, 9, 65, 76, 361, 375, 377
New York state	data sources/analysis, 405–406, 407, 421, 422,
airports/water ports, 58, 70	425, 446
areas not meeting national air quality standards,	employment, 361
308	expenditures, 198
Canadian border crossings, 62	labor productivity, 219
international trade gateways, 66, 67, 68	leaks/spills, 315
roadway congestion, 89	length of haul, 65, 361, 375, 422
cost values, 92	number of operators, 361
fuel wasted due to, 264, 265, 266, 267, 269	operating revenue, 211, 361
urban air pollution, 302, 304, 305	revenue per ton-mile, 210
urban traffic delays, 86, 87	safety performance, 361
Nitrogen oxide emissions federal standards, 273–291	system mileage, 3, 9, 361, 367
	data sources, 405–406, 407 ton-miles of product, 64, 76, 361, 374, 377,
vehicle rates, 296, 467 in reformulated gasoline engines, 294	421
by vehicle type, 292–293	Oklahoma
Noise exposure	roadway congestion, 90
data sources, 470–471	cost values, 93
high noise areas, 317	fuel wasted due to, 265
highway noise barrier construction, 316, 470	urban air pollution, 304, 305
North Carolina, 58	urban traffic delays, 87
roadway congestion, 89	Operations Network database, 426, 427
cost values, 92	Oregon
fuel wasted due to, 264, 267	airports/water ports, 58, 70
urban air pollution, 303, 304	areas not meeting national air quality standards,
urban traffic delays, 86	308
North Dakota, 67, 68	international trade gateways, 67
	roadway congestion, 89, 90
0	cost values, 93
Oak Ridge National Laboratory, 414	fuel wasted due to, 264, 266, 267, 269
Occupational Employment Statistics, 448–449	urban air pollution, 304
Office of Airline Information, 407, 417, 419, 420,	urban traffic delays, 86, 87
422, 427, 429, 445, 463	_
Office of Airport Safety and Standards, 406	P
Office of Management and Budget, 450	Panama Republic
Office of Pipeline Safety, 408, 435, 453	air passenger arrivals from, 60
Ohio 50, 50, 71	air passenger departures to, 61
airports/water ports, 58, 59, 71	Parcels. See Mail and parcel shipments
areas not meeting national air quality standards,	Particulate emissions, 467–468
308	federal standards, 273–284, 288
international trade gateways, 66	trends, 298, 299

Passenger cars	highway, 48, 51, 337, 341, 345, 372
accidents, 105, 134, 338	fuel economies, 257, 260, 393, 396
See also Passenger cars, fatalities; Passenger	revenues per, 209
cars, injuries	long-distance trip characteristics, 51–55
age of vehicles, 33, 415	passenger revenue, 209
Canadian border crossings, 62	rail, 48, 51, 373
commuter characteristics, 50	revenues per, 209
consumer spending, 336	transit, 48, 348, 350, 372
cost of owning and operating, 204, 445	fuel economies, 257, 262, 393, 399
data sources, 414, 415, 430-432, 445	revenues per, 209, 348
exhaust emissions	traveler characteristics, 54-55
federal standards, 273	trip characteristics, 51–53, 65, 375
rates, 292, 293, 294	by vehicle type, 48, 372
fatalities, 99, 108, 132, 133, 134, 338	water transport, 51
fleet characteristics, 20, 414	Pedalcycles. See Bicycles
fuel consumption, 238, 240, 246, 337, 379,	Pedestrian traffic, 50
381, 386	Canadian border crossings, 62
efficiency/intensity, 24, 246, 257, 260, 338,	fatalities, 99, 108, 132, 133
386, 393, 396, 465	injuries, 102
injuries, 102, 134	Mexican border crossings, 63
See also Passenger cars, fatalities	Pennsylvania
licensing and registration, 336	airports/water ports, 58, 70
long-distance trip characteristics, 51	areas not meeting national air quality standards,
Mexican border crossings, 63	308–309
number of, 13	international trade gateways, 67
passenger-miles traveled, 48, 337, 372	port tonnage, 71
personal consumption expenditures, 203	roadway congestion, 90
person-hours of traffic delay, 86–88	cost values, 93
purchase expenditures, 197	fuel wasted due to, 265, 266, 268
safety belt use, 143, 144	urban air pollution, 302, 303, 304, 305
use characteristics, 20	urban traffic delays, 87
work commute, 50	Personal-use vehicles
vehicle-miles traveled, 45, 246, 336, 337, 369,	age of vehicles, 20
386	Canadian border crossings, 62
accident and injury rate, 134	consumer spending, 336
vehicle production, 21	fleet characteristics, 20
vehicle sales, 15, 21–24, 414	long-distance travel characteristics, 51
vehicle size, 24	Mexican border crossings, 63
world production, 26	number of, 13
See also Motor vehicles; Personal-use vehicles	sales, 15
Passenger-miles traveled	use characteristics, 20
air, 48, 51, 323, 372, 417	See also Light trucks; Motorcycles; Motor vehi-
fuel economies, 257, 258, 294, 393	cles; Passenger cars
general aviation, 329	Petroleum
revenues per, 209	consumption, 231, 237, 238, 239, 240, 241,
Amtrak, 48, 354, 372	379, 381
fuel economies, 257, 263, 393	federal government, 253, 391
data sources, 417–419	
fuel consumption, 257, 258, 260, 262, 263,	data sources, 425, 457–458 demand, by economic sector, 233, 378, 459
393, 394, 396, 399	energy demand met by, 232
J/J, J/ 1, J/U, J//	Chicigy achiana incluy, 434

highway demand, 334	Ports
international trade, 231	Canadian gateways, 68, 75
production, 231, 457–458	data sources, 422–423
spills and leaks, 315, 469-470	federal trust fund, 227
transportation	harbor maintenance, 227
by mode, 76, 425	Mexican gateways, 68, 75
waterborne, 29, 76	top tonnage ports, 70–71, 423
See also Oil pipelines	top trade gateways, 66-67, 422
Petroleum Supply Annual, 425	waterborne tonnage, 70–71, 357–358
Philippines	See also Airports
air passenger arrivals from, 60	Portugal, motor vehicle production, 26–28
air passenger departures to, 61	Postal services. See Mail and parcel shipments
Pipelines, 72	Producer price indices, 201, 210, 443–444
accidents, 102, 105	Productivity, in transportation sectors, 219,
associated fatalities, 99, 108	449–450
associated injuries, 102	Property damage, accidents
data sources, 408	in hazardous materials incidents, 112
economic value, 181, 182	in railroad accidents, 110, 165
employment trends, 212, 450	recreational boating accidents, 172
productivity, 219	reporting thresholds, 114
wages and salaries, 216, 218	transit accidents, 147
energy consumption, 238, 240, 379, 381	waterborne transportation accidents, 171
federal expenditures, 226, 455	Public transportation
federal revenues from, 224, 225, 453	attendants, 215, 217
gas. See Natural gas, pipelines	use characteristics, 50
hazardous liquid, 4, 99	See also Transit systems
international shipments, value of, 75	Puerto Rico
leaks/spills, 315	airports/water ports, 58, 71
number of operators, 4	areas not meeting national air quality standards,
oil. See Oil pipelines	309
producer price indices, 201	urban air pollution, 304, 305
Poland, motor vehicle production, 26–28	
Police	R
air travel-related arrests, 125, 429	Race/ethnicity, traveler characteristics, 54
fleet characteristics, 20	Radioactive materials, 54
motor vehicle accident reports, 430	Railroad Facts, 403, 411, 416, 419, 421, 464, 465
Pollution	Railroad Freight Rate Index, 408, 419, 421
areas not meeting national air quality standards,	Railroads
306–310	accidents, 105, 165, 433–434
noise, 317	distribution by type, 163
petroleum spills, 315	hazardous material-related, 111–112
storage tank leaks, 316	by train-miles traveled, 165
urban air quality trends, 302–305	transit systems, 148–153
See also Exhaust emissions	See also Railroads, fatalities; railroads, injuries
Population, U.S., xvii	Canadian border crossings, 62, 68
households, xviii	car-miles traveled, 45, 251, 354, 369, 390, 419
labor force, xviii	data sources/analysis, 403, 407, 411, 413, 416,
traveler characteristics, 54–55	419, 421, 425, 433–434, 446, 464
trends, 194	economic value, 181, 182
See also Demographics	employees

injuries and fatalities, 113, 166, 355	transit, 347, 348, 349, 350, 351, 352
productivity, 219	vehicle-miles traveled, 45, 369
trends, 212, 213, 215, 353	injuries, 102, 162, 165, 433–434
wages and salaries, 216-218	among employees, 162, 166
equipment manufacturing	hazardous material-related, 111-112
employment trends, 213	by train-miles traveled, 164, 165
producer price index, 201	transit systems, 148–153
exhaust emissions	by type of accident, 163
carbon monoxide, 295	See also Railroads, fatalities
nitrogen oxides, 296	light rail
particulate matter, 298, 299	accidents and injuries, 148–153
standards, 288–289	age of vehicles, 38
sulfur dioxide, 300	average trip length, 351
volatile organic compounds, 297	criminal behavior in, 154-158
fatalities, 99, 108, 165, 355, 433–434	economic indices, 347, 348
among employees, 113, 166, 355	energy consumption, 351, 352
hazardous material-related, 111	new vehicles, sales/delivery of, 15
by train-miles traveled, 164, 165	number of vehicles, 13
transit systems, 148–153	passenger-miles traveled, 48, 350, 372
by type of accident, 163	system mileage, 3, 367
federal expenditures, 226, 454–455	vehicle-miles traveled, 45, 369
freight, 421	locomotive fleet characteristics, 39, 416
expenditures, 198	long-distance travel characteristics, 51
fuel economies, 262, 399	Mexican border crossings, 63, 68
growth, 72	number of operators, 4, 353, 407–408
hazardous materials, 77	number of stations, 8, 407
length of haul, 65, 354, 375	number of vehicles, 13, 353, 411
new vehicles, sales/delivery of, 15	operating expenses, 353
number of international gateway crossings, 68	operating revenue, 211, 353, 446
number of vehicles, 13	passenger expenditures, 197, 353, 446
oil/petroleum products, 76, 377, 425	passenger-miles traveled, 48, 372
operating revenues, 353	personal consumption expenditures, 203
revenue per ton-mile, 210	petroleum products transport, 76, 377
ton-miles transported, 64, 354, 374	producer price indices, 201
vehicle-miles traveled, 45, 369	system mileage, 3, 353, 367, 403
fuel consumption, 238, 240, 251, 379, 381,	train-miles traveled, 45, 165, 251, 369, 390,
390, 464	419
efficiency/intensity, 251, 262, 354, 390, 399,	accident and injury rates, 164, 165, 166
465	transit system
grade crossing accidents and injuries, 99, 102,	age of vehicles, 38
105, 108, 110, 162, 355	economic indices, 347, 348
hazardous materials shipments, 77, 111, 112	inventory, 349
heavy rail systems	new vehicles, sales/delivery of, 15
accidents and injuries, 148–153	number of vehicles, 13
age of vehicles, 38	passenger-miles traveled, 48, 350, 372
criminal behavior in, 154–158	stations served, 8, 368
new vehicles, sales/delivery of, 15	system mileage, 3, 367
number of vehicles, 13	vehicle-miles traveled, 45, 369
passenger-miles traveled, 48, 372	See also Amtrak; Commuter rail transportation
system mileage, 3	Railroad Ten-Year Trends, 407

Rape, 154	bridges, 37
Recreational boating	condition, 34–36, 37, 333, 415–416
accidents, 105, 172	congestion, 427–428
alcohol-related incidents, 172	cost values, 92–94
data sources, 412, 434	fuel wastage associated with, 264-269,
fatalities, 99, 108, 172, 359, 360	465–466
injuries, 102, 172, 359	index, 89–91
new vessels, sales/delivery of, 15	data sources/analysis, 403, 406, 415-416,
number of vessels, 13, 357	427–428
accident and injury rates, 172	employment, in construction/operations, 213,
personal watercraft, 172, 290, 434	333
Recreational vehicles, 15	fatalities, 130–131, 334
Recycling	functional classification, 332–333
scrap motor vehicles, 318, 471	distribution, 7, 8
waste emissions, 295–301	fatality rate, 130–131
Rental vehicle fleet, 20	government ownership, 332
Repairs. See Maintenance and repair, including parts	government revenues/expenses, 331, 452–453, 454
Research and Special Programs Administration,	injuries, 334
114, 408, 435, 453	noise barrier construction, 316
Revenues, transportation	passenger-miles traveled, 48, 51, 209, 337, 341,
air carrier, 321	345, 372
Amtrak, 353, 354	petroleum demand, 334
buses, 344	rail crossing accidents and injuries, 99, 102,
data sources, 445–446	105, 108, 110, 162, 166
foreign trade gateways, 66–67	speed limits, 142
freight, 210	system mileage, 3, 6, 7, 8, 332–333, 367, 368
by commodity, 73–74	data sources, 403, 406
growth, 72	urban traffic delays, 86–88
top foreign trade gateways, 66–67	vehicle-miles traveled, 47, 334, 341, 344, 371,
government. See Government, revenues	417–418
imports	Robbery, 154
from Canada, 75	Romania, motor vehicle production, 26–28
from Mexico, 75	Rural areas
natural gas pipelines, 362	bridges, 37
oil pipeline, 210, 211, 361	population, xvii
operating, 211, 321, 353, 356, 446	roadways
passenger, 209	conditions, 34–35, 37, 333
rail, 211, 353, 416, 446	fatalities, 130–131
transit systems, 347–348	government ownership, 332
trucking, 211, 340	miles of road, 7, 8, 332, 333, 368
waterborne transportation, 211, 356	vehicle-miles traveled, 47, 334, 336, 337, 341,
Rhode Island	344, 371
roadway congestion, 90	Russia
cost values, 93	motor vehicle production, 26–28
fuel wasted due to, 266, 269	space launches, 79
urban air pollution, 304	opace launeness, 75
urban traffic delays, 87	S
R.L. Polk, Co., 414, 415, 471	Safety belt use, 143, 144, 431, 432
Roadways	School buses, 197, 212, 344, 345
accidents, 334	Scrap
,	

freight shipments, 74	Amtrak, 3, 353, 367
motor vehicle, 318, 471	data sources/analysis, 403–406
Service industry	gas pipeline, 3, 9, 362, 367
economic indices, 189, 190, 191, 192, xviii	highway/roadway, 3, 6, 7, 8, 332–333, 367
transportation-related, 201, 212, 216	navigable channels, 3, 356, 367
Sex offenses, 154, 156	oil pipeline, 3, 9, 361, 367
Shifts in Petroleum Transportation, 421	rail, 3, 353, 367
Smoke opacity standards, 282–284, 288	transit, 3, 367
Socioeconomic status	transit, 3, 307
	Т
household income, 55, xviii	
trip/traveler characteristics, 55	Taiwan, 60, 61
South Carolina	motor vehicle production, 26–28
international trade gateways, 66	Tanker ships, 29, 40, 41, 76, 315, 356, 357, 358,
port tonnage, 71	359, 377 Total
urban air pollution, 302, 303	Taxes
South Korea, motor vehicle production, 26–28	data sources, 452–453
Space launches, 79, 425–426	fuel, 200, 224, 225, 331, 462
Spain	natural gas pipeline, 362
air passenger arrivals from, 60	transportation-related revenues, 223–225, 340
air passenger departures to, 61	See also Government, revenues, transportation-
motor vehicle production, 26–28	related
Speed limits, motor vehicle, 142	Taxis
State and local government	consumer spending, 336
contributions to GDP, 189–192	employment trends, 212, 215
DUI/DWI legislation, 140	fleet characteristics, 20
employment, transportation-related, 213, 333,	as means of transport to work, 50
447–448	personal consumption expenditures, 203
expenditures, transportation-related, 184, 186,	See also Demand responsive transit
187, 188, 454, 455	Tennessee
revenues, transportation-related, 223, 450–451,	airports/water ports, 58, 71
452–453	areas not meeting national air quality standards,
highway, 331	309
licensing and registration, 331, 336	roadway congestion, 90
road ownership, 332	cost values, 93
transit subsidies, 347	fuel wasted due to, 265, 268
Statistical Abstract of the United States, 439	urban air pollution, 303, 304
Statistical Handbook of Aviation, 420	urban traffic delays, 87
Storage tank leaks, 316	Texas
Substance abuse. See Alcohol-related incidents;	airports/water ports, 58, 59, 70
Drug abuse	areas not meeting national air quality standards,
Sulfur dioxide emissions, 300, 467, 468	309
Supplement to Producer Price Indexes, 443	international trade gateways, 66, 67, 68
Surface Transportation Board, 403, 407–408,	Mexican border crossings, 63
416, 421, 446, 464, 465	port tonnage, 71
Survey of Current Business, 436, 449, 451	roadway congestion, 89, 90
Sweden, motor vehicle production, 26–28	cost values, 92, 93
Switzerland	fuel wasted due to, 264, 265, 266, 267, 269
air passenger arrivals from, 60	urban air pollution, 302, 303, 305
air passenger departures to, 61	urban traffic delays, 86, 87
System mileage	Texas Transportation Institute, 427, 428, 465–466

Theft, 155	Irains. See Railroads
Γires, 203, 204, 336	Transborder Surface Freight Data, 424
Гolls, 203	Transit vehicles/systems
Гonnage/ton-miles	accidents/incidents, 105, 147–153, 352,
air, 56, 64, 374	432–433
data sources, 420	age of vehicles, 38, 416
hazardous materials transport, 77	average trip length, 351
revenues, 210	data sources/analysis, 405, 411, 413, 416,
all modes, 64	418–419, 432–433, 445–446, 464
growth, 72	demand responsive, 197
hazardous materials transport, 77	accidents and injuries, 148–153
petroleum, 76, 377	criminal behavior in, 154-158
revenues, 210	economic indices, 347, 348
by commodity, 73–74	economic indices, 181, 182, 211, 347–348,
data sources, 420–421, 423–424	445–446
freight revenue tons, 56, 354	employment trends, 212, 349
freight ton-miles, 64, 374	wages and salaries, 216–218
revenue per ton-mile, 210	energy consumption, 238, 240, 250, 351–352,
growth, 72	379, 381, 389
hazardous material transport, 77, 78	efficiency/intensity, 257, 262, 393, 399, 465
mail, 56, 72	fatalities, 99, 108, 147–153, 345, 352, 432–433
national trends, 194	government expenditures, 226, 347, 454
petroleum products, 64, 76, 374, 377	government revenues, 453
pipelines, 64, 374	injuries, 102, 147–153, 352, 432–433
data sources, 420	new vehicles, sales/delivery of, 15
petroleum, 64, 76, 374, 377	number of systems, 349
=	· · · · · · · · · · · · · · · · · · ·
revenues, 210	number of vehicles, 13, 349, 411
rail, 64, 354, 374	operating expenses, 347–348
data sources, 420	operating revenue, 211, 347, 445–446
growth, 72	passenger fare trends, 205, 348, 445–446
hazardous materials transport, 77	passenger-miles traveled, 48, 350, 372
petroleum, 76, 377	personal consumption expenditures, 197, 203,
revenues, 210	347, 348
revenues, 210	system mileage, 3, 367, 405
truck, 64, 341, 374	vehicle-miles traveled, 45, 350, 369, 418–419
data sources, 420	accident and injury rate, 147, 149–150, 152–153
growth, 72	vehicle speed, 351
hazardous materials transport, 77	See also specific mode
petroleum, 76, 377	Transportation Energy Data Book, 414
revenues, 210	Transportation in America, 405, 407, 420, 421
waterborne, 64, 69, 357–358, 374, 376	Transport Economics, 421
data sources, 420	Travel, long-distance. See Long-distance travel
growth, 72	Travel agencies, 201
hazardous materials transport, 77	Trespassing, 157, 162, 355
petroleum, 76, 377	Trolley buses, 347, 348, 349, 350, 351, 352
revenues, 210	age of vehicles, 38
top U.S. ports, 70–71	new vehicles, sales/delivery of, 15
Towboats/tugboats, 40, 41, 357, 359	number of, 13
Toxic material shipments, 78	passenger-miles traveled, 48, 372
Traffic Monitoring Guide, 417–418	vehicle-miles traveled, 45, 369

Truck Inventory and Use Survey, 418	See also Light trucks
Trucks and trucking	Trust funds, federal, 224, 225, 227, 331, 452, 453
accidents, 105, 136, 342	Tugboats, 40, 41, 357, 359
See also Trucks and trucking, fatalities; Trucks	Turkey, motor vehicle production, 26–28
and trucking, injuries	•
age of vehicles, 33, 415	U
commercial vehicle production, 21	Uniform Statistical Report, 406, 407
data sources/analysis, 408, 410-411, 414, 415,	United Kingdom
420, 421, 425, 446	air passenger arrivals from, 60
economic indices, 181, 182, 211, 340	air passenger departures to, 61
employment trends, 212, 340	motor vehicle production, 26–28
productivity, 219	Urban areas
professional operators, 215, 217	air pollution trends, 302–305, 468
wages and salaries, 216-218	bridges, condition of, 37
energy consumption, 240, 381	population distribution, xvii
exhaust emissions	population trends, xvii
federal standards, 283–284	roadways
rates, 292, 293, 294	conditions, 35–36, 333
fatalities, 99, 108, 132, 136, 342	congestion, 89–91, 264–269, 427–428, 466
fleet characteristics, 20	fatalities, 130–131
freight transportation, 420	government ownership, 332
domestic length of haul, 65, 375	miles of road, 7, 8, 332, 333
expenditures, 198	traffic delays, 86–88
growth, 72	vehicle-miles traveled, 47, 334, 336, 337, 341,
hazardous materials, 77	344, 371
intercity ton-miles, 64, 374	See also specific state
number of international gateway crossings, 68	Urban Roadway Congestion Annual Report, 427
oil/petroleum products, 76, 377, 425	U.S. Army Corps of Engineers, 405, 408, 411,
revenue per ton-mile, 210	417, 421, 423, 425, 446, 454
fuel consumption, 238, 248, 249, 341, 379, 388	U.S. Coast Guard, 114, 408, 411, 412, 434, 469,
efficiency/intensity, 25, 248, 249, 341, 388	470
hazardous materials shipments, 77	search and rescue efforts, 173, 434
injuries, 102, 136	U.S. Customs Service, 423, 425
See also Trucks and trucking, fatalities	U.S. Department of Commerce, 412, 414, 420,
interstate carriers, number of, 4, 408	422, 424, 436, 448, 449
labor productivity, 219	U.S. Department of Defense, 422, 423, 463,
length of haul, 342	464–465
number of, 13, 410–411	U.S. Department of Energy, 405, 407, 422, 425,
number of commercial establishments, 340	439, 440, 457, 459, 462, 464, 468
oil transport, 76, 377	U.S. Department of Labor, 443, 447
operating revenue, 211	U.S. Department of the Interior, 408, 439
passenger-miles traveled, 48, 341, 372	U.S. Department of Transportation, 405, 407,
personal consumption expenditures, 203	417, 426, 447–448, 449–450, 453
producer price indices, 201	See also specific administration, bureau, or office
sales, 15, 25	U.S. Department of Treasury, 422, 424
taxes paid, 340	U.S. Environmental Protection Agency, 467, 468,
use characteristics, 20	470
vehicle-miles traveled, 45, 248, 249, 341, 342,	Utah, 58
369, 388 accident and injury rate, 136	areas not meeting national air quality standards, 309
accident and initially rate, 1.30	JU /

roadway congestion, 90	air passenger arrivals from, 60
cost values, 93	air passenger departures to, 61
fuel wasted due to, 266, 269	Vermont, 67
urban air pollution, 304	Virginia
urban traffic delays, 87	international trade gateways, 66
Utility vehicles, 20	port tonnage, 70, 71
V	roadway congestion, 90, 91 cost values, 93, 94
Vacation and pleasure travel, trip characteristics,	fuel wasted due to, 265, 266, 268, 269
52–53	urban air pollution, 304, 305
Vandalism, 156	urban traffic delays, 87
Vans/vanpools, 25, 38	Volatile organic compounds, 297, 467
accidents and injuries, 148–153	
average trip length, 351	W
vehicle speed, 351	Wages and salaries, 216–218
Vehicle-miles traveled	Wall Street Journal, 414
air transport, 45, 369, 417	Ward's Automotive Reports, 414
average length of haul, 65, 375	Ward's Motor Vehicle Facts & Figures, 414
fuel consumption, 243, 384	Washington, D.C. See District of Columbia
general aviation, 329, 417	Washington state
revenue miles, 322	airports/water ports, 58, 70, 71
safety performance, 117, 119	areas not meeting national air quality standards,
Amtrak, 354	309
data sources, 417–419	Canadian border crossings, 62
fuel consumption, 243, 244, 246, 248–252,	international trade gateways, 66, 67
260, 262, 384–389, 399	roadway congestion, 90, 91
highway, 45, 334, 336–337, 341, 342, 344, 345,	cost values, 93, 94
369	fuel wasted due to, 266, 269
average length of haul, 65, 375	urban air pollution, 304, 305
exhaust emission rates, 292–294	urban traffic delays, 87, 88
exhaust emission standards, 273–282	Waste. See Exhaust emissions; Recycling; Scrap
fuel consumption, 244, 246, 248, 249, 260,	Waterborne Commerce of the United States, 421,
385–389	423, 425 Waterhama transportation
by roadway type, 47, 336–337, 371	Waterborne transportation
safety performance, 129, 134, 135, 136, 138, 338, 342	accidents, 105, 111, 112, 171
long-distance personal-use, 51–55	age of vessels, 40–41 Coast Guard search and rescue efforts, 173
rail, 45, 354, 369	coast duard scarch and rescue chorts, 173 coastwise shipping, 64, 65, 69, 374, 375, 376
average length of haul, 65, 375	data sources/analysis, 405, 408, 411–412, 413,
fuel consumption, 251, 262, 390, 399	417, 421–422, 425, 434, 446, 464
safety performance, 164, 165, 166	domestic freight
transit, 350	length of haul, 65, 375
by roadway type, 47, 336–337, 371	short tons, 69, 376
transit, 45, 350, 369, 418–419	ton-miles, 64, 374
fuel consumption, 250	economic value, 181, 182
safety performance, 147	employment trends, 212, 215, 356
by vehicle type, 45, 369	wages and salaries, 216–218
water vessels, 65, 375	federal expenditures, 226, 454
Vehicle trips, long-distance personal-use, 51–55	federal revenues from, 224, 225, 453
Venezuela	freight transportation, 421

Weapons detected at airports, 125
Weather conditions
air transit delays and, 85
at time of motor vehicle accidents, 141
West Virginia
areas not meeting national air quality standards.
309
port tonnage, 70
urban air pollution, 305
Wholesale/retail trade
aircraft sales, 15, 412
economic indices, 189, 190, 191, 192, xviii
employment trends in transportation industries,
213
passenger car sales, 22-24, 412, 414
Wisconsin
areas not meeting national air quality standards.
309
port tonnage, 70
roadway congestion, 90
cost values, 93
fuel wasted due to, 265, 268
urban air pollution, 303
urban traffic delays, 87
World Bank, 416
Wyoming
areas not meeting national air quality standards,
309
Υ
Yugoslavia, motor vehicle production, 26–28